CS 475/575

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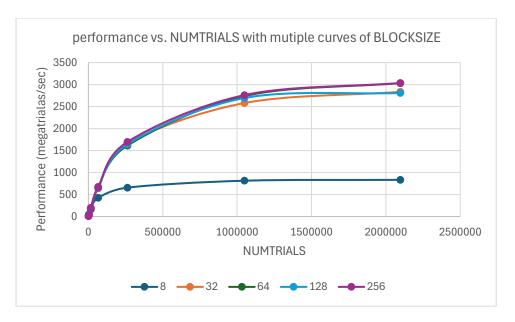
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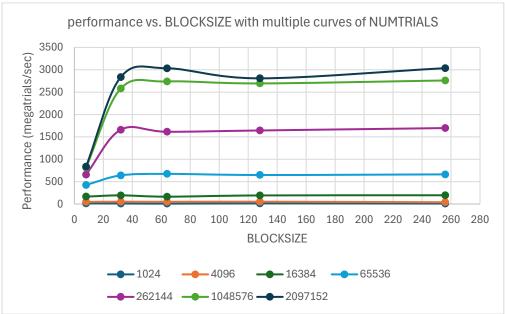
Project #5

CUDA: Monte Carlo Simulation

- 1. Tell what machine you ran this on rabbit
- 2. What do you think this new probability is?
- 3. Show the rectangular table and the two graphs

Number of Trials	BlockSize	MegaTrials/Second	Probability
1024	8	12.6382	83.69
1024	32	10.9178	83.69
1024	64	7.909	82.62
1024	128	13.0666	84.67
1024	256	9.5665	84.18
4096	8	47.1802	84.64
4096	32	51.5921	83.57
4096	64	49.6894	84.38
4096	128	51.8429	84.01
4096	256	39.8382	83.64
16384	8	164.8953	83.45
16384	32	193.3535	84.16
16384	64	163.4738	83.72
16384	128	191.4734	83.92
16384	256	195.2708	83.19
65536	8	425.0727	83.79
65536	32	639.6003	83.7
65536	64	673.0201	83.95
65536	128	647.8962	83.84
65536	256	661.9263	83.69
262144	8	657.042	84.02
262144	32	1659.9797	83.82
262144	64	1614.1871	83.88
262144	128	1643.6596	83.87
262144	256	1697.1203	83.85
1048576	8	814.4153	83.79
1048576	32	2580.5638	83.83
1048576	64	2738.8834	83.84
1048576	128	2694.9584	83.79
1048576	256	2761.2708	83.79
2097152	8	833.8337	83.82
2097152	32	2835.7059	83.78
2097152	64	3033.7933	83.8
2097152	128	2808.7258	83.81
2097152	256	3036.7453	83.75





- 4. What patterns are you seeing in the performance curves?
- 5. Why do you think the patterns look this way?
- 6. Why is a BLOCKSIZE of 8 so much worse than the others?
- 7. How do these performance results compare with what you got in Project #1? Why?
- 8. What does this mean for what you can do with GPU parallel computing?